Orexin A (OXA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Orexin A (OXA), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Orexin A (OXA)
Product Gene Name	anti-OXA antibody
Product Synonym Names	Hypocretin-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: OXA (MBS2026540) FITC Conjugated Antibody: OXA (MBS2044935)
Molecular Weight	13,363 Da
OMIM	AF041240 mRNA
3D Structure	ModBase 3D Structure for O43612
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	OXA (Ala32~Ala123)
Conjugation	FITC
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2026540
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-OXA antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-OXA antibody	MBS2044935 is an antibody targeting OXA. Also known as FITC-Linked Polyclonal Antibody to Orexin A (OXA). Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-OXA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OXA. It may not necessarily be applicable to this product.

NCBI GI #	4557635
NCBI GeneID	3060
NCBI Accession #	NP_001515.1
UniProt Primary Accession #	O43612

UniProt Related Accession #	O43612
GenBank Nucleotide #	NM_001524.1
NCBI Official Full Name	orexin
NCBI Official Synonym Full Names	hypocretin neuropeptide precursor
NCBI Official Symbol	HCRT
NCBI Official Synonym Symbols	OX; PPOX; NRCLP1
UniProt Protein Name	Orexin
UniProt Synonym Protein Names	Hypocretin; Hcrt
UniProt Gene Name	HCRT
UniProt Synonym Gene Names	OX; PPORX; PPOX; Hcrt; Hcrt1; Hcrt2
NCBI Protein Information	orexin
NCBI Summary for OXA	This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors HCRTR1 and HCRTR2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis. [provided by RefSeq, Jan 2010]
UniProt Comments for OXA	HCRT: Neuropeptides that play a significant role in the regulation of food intake and sleep-wakefulness, possibly by coordinating the complex behavioral and physiologic responses of these complementary homeostatic functions. A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested. Orexin-A binds to both OX1R and OX2R with a high affinity, whereas orexin-B binds only to OX2R with a similar high affinity. Defects in HCRT are the cause of narcolepsy type 1 (NRCLP1). Narcolepsy is a neurological disabling sleep disorder, characterized by excessive daytime sleepiness, sleep fragmentation, symptoms of abnormal rapid-eye-movement (REM) sleep, such as cataplexy, hypnagogic hallucinations, and sleep paralysis. Cataplexy is a sudden loss of muscle tone triggered by emotions, which is the most valuable clinical feature used to diagnose narcolepsy. Human narcolepsy is primarily a sporadically occurring disorder but familial clustering has been observed. Human narcolepsy is associated with a deficient orexin system. Orexins are absent and/or greatly diminished in the brain and cerebrospinal fluid (CSF) of most narcoleptic patients. Belongs to the orexin family. Protein type: Hormone Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: extracellular region; synaptic vesicle Biological Process: synaptic transmission Disease: Narcolepsy 1
Research Articles on OXA	**1.** There was also a negative correlation between Epworth sleepiness scale scores and orexin levels in Prader-Willi syndrome patients. Decreased cerebrospinal fluid orexin levels in Prader-Willi syndrome may play an important role in severity of obesity and excessive daytime sleepiness.
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